DIGITBRAIN

DIGITbrain- Public evaluation report of the second Open Call

By WP8 - Communication and Outreach

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Document history and quality check

Document History

Version	Date (DD/MM/YYYY)	Created/Amended by	Changes
01	13/10/2021	CSME	First draft of the deliverable
02	25/10/2021	CSME	Final revised version after quality check

Table 1: Document history

Quality check review

Reviewer (s)	Main changes
José Luis Gallego	Template format check, providing suggestions about some contents of the document

Table 2: Quality check review

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Executive summary

Shortly after the evaluation of submitted proposals in the Open Call a public summary report of the evaluation results should be published on the DIGITbrain project's website within 30 days of the end of evaluation after the feedback process given to the participants.

This report shall comprise an account of the call, its evaluation and its results, including dates of the call, how it was published, dates of evaluation, number of proposals received, number of proposals funded, as well as a list of all selected proposers and their funding amounts.

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Evaluation Report

Results of open call (call ID ref DIGITbrain – OC2) for recipients of financial support.

Project acronym: DIGITbrain
Project grant agreement number: 952071
Project full name: Digital twins bringing agility and innovation to manufacturing SMEs, by empowering a network of DIHs with an integrated digital platform that enables manufacturing as a Service (MaaS)

Project DIGITbrain, co-funded from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952071, launched an open call (call ID ref DIGITbrain – OC2) for recipients of financial support.

The call was opened on 28ᵗʰ February 10:00h (CEST Time) and closed on 31ˢᵗ June 2021, 17:00h (CEST Time).

<u>Total EC funding available for third parties in DIGITbrain-OC2:</u> up to 652.655 EUR financial support for Third Parties.

<u>Maximum amount of financial support for each Third Party:</u> 60,000 EUR

A total of 37 proposals from 18 different countries were received for this call. In 34 out of the 37 proposals there was a total of 38 women involved in the execution team of the experiment proposals. From the 85 companies involved in the 7 experiment proposals which will receive funding for a total amount of 652.655 EUR, 7 of the companies were led by women. To sum up, the entire budget of 3,6 Million Euros, allocated for the applicants of both open calls for application experiments was requested.

The evaluation and selection was completed in due time from mid June to mid July 2022 by 18 Independent Experts (8/10 female-male ratio) and 13 internal technical partners (only one expert was female) from the DIGITbrain consortium. All participants were informed about the evaluation results for their experiment proposal for financial support.

Call information

Complying with EC standards, DIGITbrain 2ⁿᵈ Open Call has been published via the corresponding distribution channels, including:

- DIGITbrain project Portal, link here.
- H2020 Participant Portal, link here.
- EFRA portal, link here.
- I4MS framework, link here.
- FundingBox Portal, link here.
- EGI portal, link here.

- The international press (Example links here and here. For more information read Deliverable D8.2, which is available for download here.).
- Industry Associations (Example link here. For more information read Deliverable D8.2, which is available for download here.).

Besides, DIGITbrain's 2nd Open Call has been promoted by other organizations close to the project, like:

- Innovation Place Portal: This portal is being the internal communication platform for DIGITbrain partners, amongst other European projects, link here.
- FundingBox dissemination channels: FundingBox as the SW platform provider in DIGITbrain open call, will help to promote and disseminate the open calls through their newsletter, their Community Platform and their Social Media, in the upcoming weeks, link here and here.
- CloudiFacturing portal: DIGITbrain is being built on the results of CloudiFacturing, that's why this portal is promoting also DIGITbrain, link here and here.
- cloudSME website: As the partner leading the DIGITbrain strategy dissemination, has been promoting also the open calls, link here.

Furthermore, CloudSME as partner leading the dissemination and promotion is carrying out the dissemination plan to promote this first open call including:

- A strong social media strategy through Social Media Accounts on Twitter, Facebook and LinkedIn.
- Press release, launched in January and March 2022 in three different languages (English, German, Spanish and Italian), link here.
- Another promotional video for the 2nd Open Call, link here.
- A Call Announcement document published in DIGITbrain website three months before the launch of the 2nd Open Call, link here.

In addition to all these promotional activities, DIGITbrain partners involved in open calls organization and execution have scheduled specific dissemination activities:

- Two specific webinars for applicants (QA and Support). First of them on 10th March 2022, the second one on 29th April 2022. Further information here and here.
- Frequently Asked Questions (FAQ) area included in the DIGITbrain website and the Open Call portal, link here and here.
- Other online events (proposal development trainings for applying parties), with a regional coverage were carried out and led by DIHs. Link, here.

Finally, all DIGITbrain partners are broadly promoting the open calls through their own channels, like social media, newsletters, LinkedIn groups and other online channels.

Response to the call-in detail

	Number of proposals	Funding requested

Proposals received	37	3.418.218,01 €
Eligible proposals	35	3.167.968,01 €
Proposals above threshold	2	250.250 €
Selected proposals	7	652.655 €

Table 3: Number of proposals and funding requested

List of beneficiaries

Proposal acronym	Organisation	Country	Type of organisation	Funding awarded
BeerPredictor	Karlwood Ltd.	Hungary	SME	<u>26.250,00 €</u>
BeerPredictor	EN-CO Software Private Co Limited	Hungary	SME	<u>39.950,00 €</u>
BeerPredictor	Deodat 21 Private Partnership	Hungary	SME	<u>31.500,00 €</u>
TEXAMAC	Mayteks Orme Sanayi ve Ticaret Anonim Sirketi	Turkey	MID - CAP	<u>26.250,00 €</u>
TEXAMAC	Eliar Elektronik Sanayii Anonim Sirketi	Turkey	SME	<u>42.000,00 €</u>
APRICOT	Bauwerk Group Hrvatska d.o.o.	Croatia	MID - CAP	<u>37.187,00 €</u>
APRICOT	Ascalia d.o.o.	Croatia	SME	<u>59.500,00 €</u>
INSOTWIN	Arneplant SL	Spain	MID - CAP	<u>58.680,00 €</u>
INSOTWIN	DigitalTwin Technology GmbH	Germany	SME	<u>39.120,00 €</u>
DTPQS4IG	CMS Makine Sanayi Ve Ticaret Anonim Şirketi	Turkey	SME	<u>48.041,00 €</u>
DTPQS4IG	Simtera Bilişim İletişim Teknolojileri Limited Şirketi	Turkey	SME	<u>49.087,00 €</u>
INTEGRABLE	Consorzio Intellimech	Italy	SME	<u>52.500,00 €</u>
INTEGRABLE	S.C.A.MM. S.R.L.	Italy	SME	<u>44.800,00 €</u>
DTCFAM	Compoxi S.L	Spain	SME	<u>48.895,00 €</u>
DTCFAM	Addcomposites Oy	Finland	SME	<u>48.895,00 €</u>

Table 4: Funding awarded per beneficiary

List of selected proposals

Proposal Acronym	Proposal Title	Abstract	Funding awarded
BeerPredictor	A predictive tool for breweries to optimize the beer mashing process	While the adoption of "smart" brewing technologies has given a significant boost to the production effectiveness of the	97.700,00

		brewing industry, certain critical issues - most importantly, the complexities of the mashing process - still miss game-changing technological solutions. To date, the optimal mashing process – which sets some of the very essence of the style of the beer – has been determined by breweries manually, through producing trial brews and series of sampling, resulting in inefficiencies, greater costs, and incremental revenue loss. Our objective is to tackle this challenge by developing a digital simulation (our product, BeerPredictor), which supports setting and defining the correct mashing parameters, allowing small independent brewers to meet the specified carbohydrate composition of a particular beer style without intensive and costly manual tests – trial-and-error approaches - and analytical follow-up, based on the malt batch analytical parameters.	
TEXAMAC	Anomaly Detection, Modelling and Adaptive Control of Textile Dyeing Temperature Control Phases	Textile dyeing is the one of the main processes in textile sector. Textile dyeing process is a batch process and each factory has around 40 dyeing machines. The temperature control of the dye liquid in textile dyeing machine is a phase of textile dyeing process which takes about 70% of dyeing duration. Correct and optimal temperature control is inevitable for quality of desired colour and decreasing colour repairs which results in savings in steam, energy, water,	68.250,00

		chemical and dye usage. Our aim optimising temperature control of the machines by means of finding anomalies, creating digital twin of the temperature control phase and implementing adaptive control algorithms based on PI control.	
APRICOT	AI Parquet Quality Control	APRICOT is an AI-enabled system for quality control of glue application in parquet flooring manufacturing at Bauwerk Group, leading parquet manufacturer in Europe from Switzerland. The experiment uses machine learning with Edge computing and NIR cameras to eliminate quality issues on an automated wood flooring production line in real-time.	96.687,00
INSOTWIN	Digital twin simulation of the shoe insole manufacturing process	INSOTWIN will create a digital twin of the process of thermo-moulding within the manufacturing of shoe insoles in the factory of Arneplant, the EU leader in shoe insole manufacturing. The project will be based on the existing solution of Digitaltwin Solutions. The Digital Twin solution will be based in the data, model and algorithm tuple proposed by DigitBrain with the aim to use the Digital Agora in their exploitation.	97.800,00
DTPQS4IG	Digital Twin and Predictive Quality Solution for Insulated Glass Machine	DTPQS4IG project aims to create a Predictive Quality tool with Digital Twin functions for Insulated Glass Machines. Insulated glasses are vital for sustainable building by reducing emissions. The emission reduction performance of the products is directly related to the gas filled in the insulated glasses. With	97.128,00

		that project, we make 100 % quality control of gas filling process by analyzing the IoT data collected over machine controller and show the results to manufacturing operation over a digital twin.	
INTEGRABLE	monItoring and coNTrol for rEconfiGuRABLe prEsses	The experiment seeks to develop an experimental Data Driven Digital Twin which will permit i) edge in process control through a process stabilization monitoring and control system and ii) post process Quality Assessment combined with a continuous learning tool that will extract Geometry based Knowledge rules from multi machine XYZ Datasets allocated in the Digit Brain Platform; to "a priori" find improved Printing parameters and feed forward control strategies.	97.300,00
DTCFAM	Digital Twin For Continuous Fiber Additive Manufacturing	A digital twin for the AFP process will be developed by advancing offline programming software. The solution will capture, and process data to identify defects in real-time alerting the operator to take the corrective action.	97.790,00

Table 5: list of selected proposals